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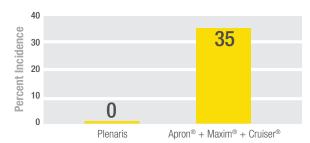
Next-generation seed treatment for downy mildew protection

Plenaris® fungicide is the latest addition to CruiserMaxx® Sunflower, the most comprehensive seed treatment on the market. CruiserMaxx Sunflower with Plenaris, a combination of separately registered products, provides multiple modes of action, delivering the most sustainable, best-performing downy mildew management program in the industry. It also provides the broadest disease and insect protection available to maximize the genetic potential of sunflowers.

Plenaris Benefits

- Provides excellent protection against all downy mildew races
- Outstanding activity on susceptible and resistant sunflower varieties
- Used in combination with Dynasty® seed treatment for resistance management and additional control

Enhances Downy Mildew Protection



All Plenaris treatments included a base treatment of Maxim 4FS mg ai/seed + Cruiser 5FS 0.25 mg ai/seed



North Dakota State University Trial, 2014

Downy Mildew Disease Profile

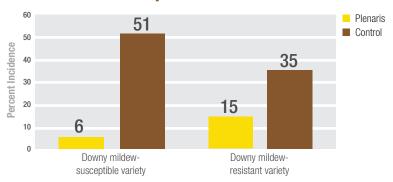
- Oomycete (Plasmopara halstedii)
- Infects sunflowers with primary infection in seedling roots
- Water-saturated soils soon after planting favor systemic infection
 - · Low-lying areas in fields are most susceptible to infection
 - Infection can lead to large bare spots and/or areas with little to no yield

Source: Plant Health Progress article: Prevalence and Incidence of Sunflower Downy Mildew in North Dakota Between 2001 and 2011



NEW Nuseed sunflower hybrids now with Plenaris

Protects Susceptible and Resistant Varieties



North Dakota State University Trial, 2016

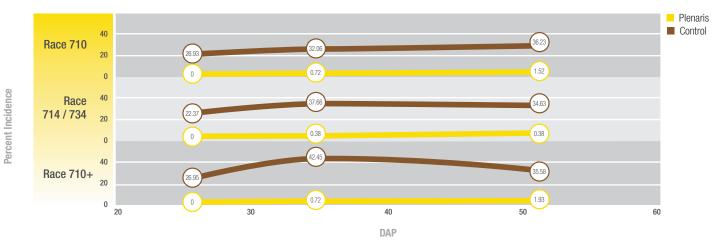


Sunflower systemically infected with P. halstedii



Healthy, non-infected sunflower

Controls Key Downy Mildew Races



Race 714/734: virulent on Pl1, Pl2, Pl5 and Pl6 resistance genes; Race 710: virulent on Pl1, Pl2 and Pl5 resistance genes; Race 710+: virulent on Pl1, Pl2, Pl5 and Pl8 resistance genes. North Dakota State University Trial, 2015. Reported as a percentage; systemically infected plants divided by total plants in 25' of plot

Plenaris treatments included a base treatment of Maxim 4FS 0.0025 mg ai/seed + Cruiser 5FS 0.25 mg ai/seed

Technical Attributes

Chemical Group: Piperidinyl thiazole isoxazoline

Active Ingredient: Oxathiapiprolin

Mode of Action: Lipid homeostasis and transfer/storage inhibition;

FRAC Group F9. New, no cross resistance.

Registered Crop: Sunflower

Seed Treatment Use Rate: 0.0094 mg ai/seed

For more information, visit www.syngenta-us.com/seed-treatment/cruisermaxx-sunflower.



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Product performance assumes disease presence. All photos are either the property of Syngenta or are used with permission

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